

# AIR PRESSURE SEAL TESTER



# Air Pressure Seal Tester — ToronFT™ APS

ToronFT™ APS Air Pressure Seal Tester is a versatile pneumatic testing instrument designed for the performance testing of pressure-bearing products across a wide range of industrial and fire protection applications. Capable of evaluating air sealing performance, gas pressure resistance, gas leakage detection, and gas pressure resistance bursting tests, the ToronFT™ APS serves as a comprehensive air pressure qualification platform for valves, pipe fittings, pressure vessels, gas cylinders, and related pressure-containing components.

With a pressure range of 0–20 MPa (expandable to higher pressures upon request), compatibility with air, nitrogen, helium, and other gas media, a pressure measurement accuracy of  $\pm 0.5\%$  F.S., and a pressure control accuracy of  $\pm 1\%$  F.S., the ToronFT™ APS air pressure seal tester provides the measurement precision and operational flexibility demanded by both production quality assurance and certification testing programs.

## APPLICATIONS

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### Air Pressure Seal Tester — ToronFT™ APS Applications

- Gas fire extinguishing system manufacturers: air sealing performance and gas pressure resistance testing of cylinders, valves, and fittings
- Valve and pipe fitting manufacturers: gas pressure resistance, gas leakage detection, and sealing performance qualification
- Pressure vessel and gas cylinder manufacturers: pressure resistance and burst testing qualification
- Third-party certification and testing laboratories: pneumatic performance testing per international pressure equipment and fire protection standards
- Quality assurance departments: production-line and incoming inspection air pressure sealing verification for pressure-bearing components



## FEATURES

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### Air Pressure Seal Tester — ToronFT™ APS Key Features

- Versatile test capability: air sealing performance test, gas pressure resistance test, gas leakage detection, and gas pressure resistance bursting test — all on one platform
- Suitable for valves, pipe fittings, pressure vessels, gas cylinders, and other pressure-bearing products
- Pressure range: 0–20 MPa (expandable to higher pressures on request) — covering standard and elevated test pressure requirements
- Compatible test media: air, nitrogen, helium, and other gas media — flexibility for leak detection and inert gas applications
- Test temperature: normal ambient (special temperature capabilities available upon consultation)
- Expandable test stations: starts at 1 station, expandable — scalable to meet growing production throughput needs
- Pressure measurement accuracy:  $\pm 0.5\%$  F.S. (expandable to higher accuracy) — precise, traceable pressure data
- Pressure control accuracy:  $\pm 1\%$  F.S. — stable, repeatable test pressure delivery
- Timing range: 0–999 hours — accommodating any standard-specified pressure hold duration

## THEORY & METHOD

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### Theory and Method

Air pressure seal testing pressurizes the test specimen to the specified test pressure using a gaseous medium (air, nitrogen, helium, or other specified gas) and evaluates whether the specimen maintains pressure integrity — showing no measurable leakage — over the required hold duration. The ToronFT™ APS applies the test pressure through the specimen connection interface and monitors pressure using precision transducers with  $\pm 0.5\%$  F.S. accuracy throughout the test hold period. Gas

pressure resistance testing applies pressure incrementally to the burst or proof pressure level, verifying structural integrity under over-pressure conditions.

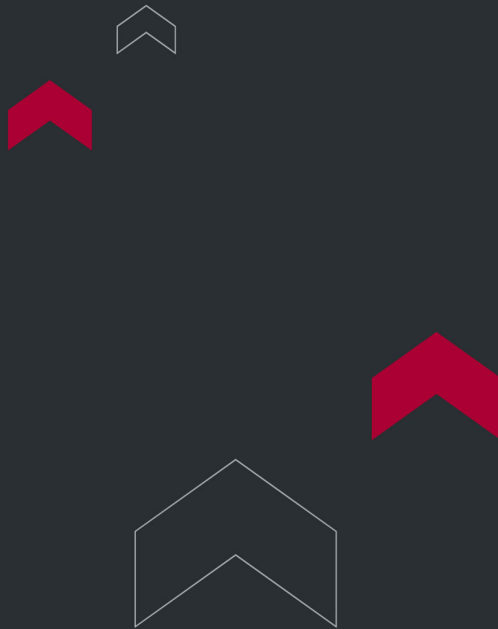
Gas leakage detection uses sensitive pressure decay measurement — any drop in the monitored pressure during the hold period indicates leakage from the specimen. The precision timing system (0–999 h range) ensures that any standard-specified hold duration can be accurately executed, and the expandable test station design allows the instrument to grow from one station to multiple stations as throughput requirements increase.

**TECHNICAL SPECIFICATIONS**

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**Air Pressure Seal Tester — ToronFT™ APS Technical Specifications**

| Parameter                     | Specification                                             |
|-------------------------------|-----------------------------------------------------------|
| Model                         | ToronFT™ APS                                              |
| Pressure Range                | 0 – 20 MPa (expandable to higher)                         |
| Test Media                    | Air, nitrogen, helium, and other gas media                |
| Test Temperature              | Normal ambient (special temperature available on request) |
| Test Stations                 | 1 (expandable)                                            |
| Pressure Measurement Accuracy | ±0.5% F.S. (expandable to higher)                         |
| Pressure Control Accuracy     | ±1% F.S.                                                  |
| Timing Range                  | 0 – 999 h                                                 |



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